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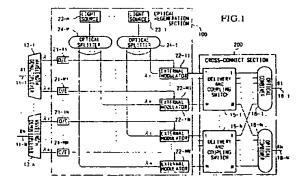
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## (54) Optical cross-connect system

(57) An optical cross-connect system is provided with M fixed wavelength light sources and external modulators corresponding to respective optical paths, serving as light sources for wavelength conversion devices corresponded to M x N optical paths. By means of electrical signals for the converted optical signals canied on the M x N optical paths, CW lights input to the external modulators from the respective light sources are modulated, wavelength converted and then output. Accompanying this wavelength conversion, wavelength multiplexed light sources which can select lights from a plurality of fixed wavelength light sources and output to pre-

determined output ports, are used for the light sources of the plurality of wavelength conversion devices of the cross-connect system. In this way, the light sources of a plurality of wavelength conversion sections are commonalized using a fixed wavelength light source. As a result wavelength multiplexed light sources which can respectively output lights of optional wavelengths to a plurality of output ports using a plurality of fixed wavelength light sources are realized. Moreover, by using such wavelength division multiplexed communication light sources, then a highly realizable and economical optical cross-connect system is possible.





## EUROPEAN SEARCH REPORT

Application Number EP 96 40 1795

Category	Citation of document with of relevant p.	th indication, where appropriate, assages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Ci.6)
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Th	ne present search report has b			
	E HAGUE	Date of completion of the search	T	Examiner
CATEC particular particular document technolog	GOHY OF CITED DOCUMENTS  Ty relevant if taken atone Ty relevant if combined with anothe to the same category Could background and daclosure and daclosure	L - document cited for o	ent. Duf published e application ther reasons	ntten d on or

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